

Studies on a Niobia-supported VPO catalyst for Glycerol Dehydration

N. Pethan Rajan^a, Srinivasa Rao Ginjupalli^{a,b}, Sailaja Gadamsetti^{a,c}, Putrakumar Balla^{a,d,*}, V R Chary Komandur^{a,*}

Supplementary Information

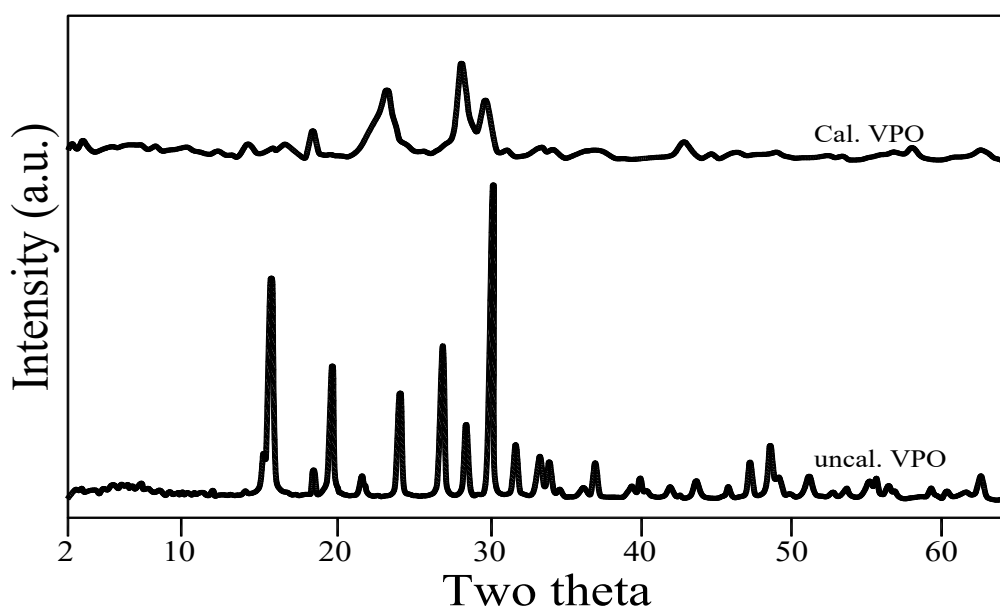


Fig S1: XRD patterns of pure uncalcined VPO and calcined pure VPO

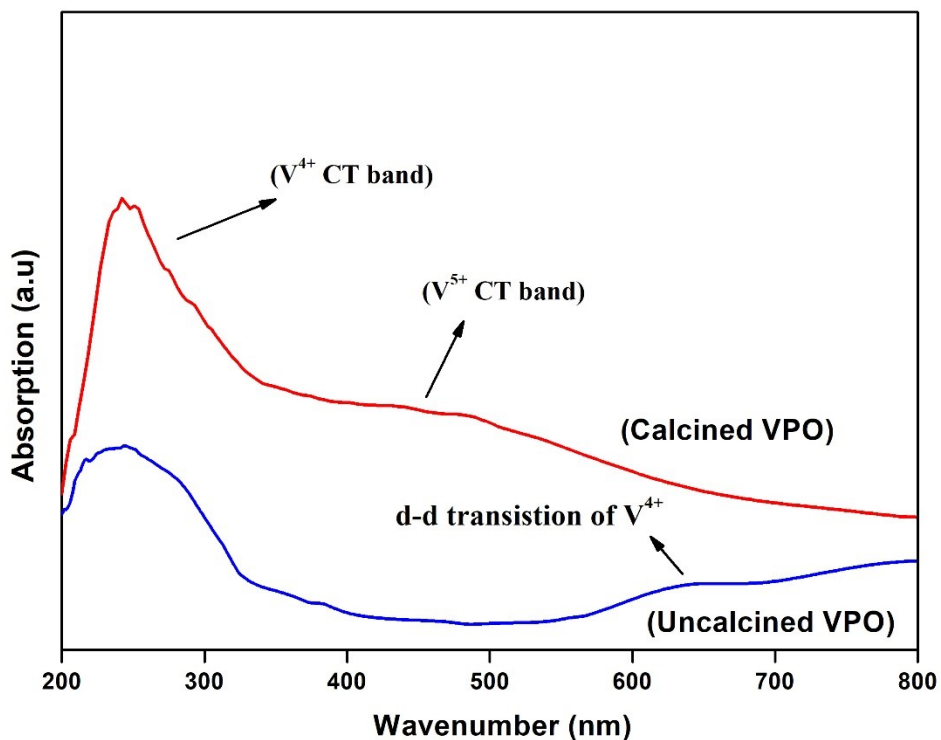


Fig S2: UV-DRS spectra of pure uncalcined and calcined VPO catalyst

Table S1: Physical properties of 5 wt% VPO/Nb catalyst over N₂ flow (N₂) and air along with

N₂ flow (AN)

S. No	VPO loadings	Surface area (m ² /g)	Pore Volume (cc/g)	Pore diameter (Å)
1.	5 wt%	46	0.1013	87.92
2.	5 wt% (AN)	44	0.0939	96.25
3.	5 wt% (N ₂)	39	0.0820	71.37

Table S2: Elemental analysis results of 5 wt% VPO/Nb catalyst over N₂ and air along with

N₂ flow (AN)

S.No	VPO loadings	Carbon (%)	Hydrogen (%)	H/C ratio
1.	5 wt% (N ₂)	5.88	1.74	0.296
2.	5 wt% (AN)	1.88	0.88	0.468

